

ICS 53.100
CCS P 97



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 8511.1-1995

Replacing GB/T 8511-2005

**Vibratory roller
(English Translation)**

Issued on: December 28, 2018

Implemented on: July 1, 2019

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword
1 Scope
2 Normative references

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 8511-2005 "Vibratory Roller", compared with GB/T 8511-2005, in addition to editorial modifications, the main technology the content changes are as follows.

- Increased definition of amplitude uniformity (see 3.2);
- Revised the preparation method of the product model (see 4.2, 4.2 of the 2005 edition);
- Revised the specification series of the working quality of the roller and the corresponding parameters (see Table 1, Table 2, Table 3, Table 2, Table 3 of the 2005 edition, Table 4);
- Revised the basic requirements (see 5.1, 5.1 of the 2005 edition);
- Modified the work quality requirements of the roller (see 5.2.1, 5.2.1 of the 2005 edition);
- Revised the deviation requirements of the vibration frequency (see 5.2.2, 5.2.2 of the 2005 edition);
- Increased amplitude uniformity requirements (see 5.2.2);
- Removed the requirements of the drive system (5.2.12 of the 2005 edition);
- Revised operational requirements (see 5.2.5, Table 5 of the 2005 edition);
- Removed the requirement for lubricating oil (2005 version 5.2.7);
- Modified the cleanliness level of solid oil contamination of hydraulic oil (see 5.2.7, 5.2.6 of 2005 edition);
- Revised the climbing requirements (see 5.2.8, 5.2.8 of the 2005 edition);
- Modify the minimum turning diameter (see Table 1, Table 7 of the 2005 edition);
- Revised the leakage oil requirements (see 5.2.21, 2005 edition of 5.2.14);
- Increased safety and environmental protection related requirements (see 5.3, 2005

edition of 5.3);

- Revised the reliability indicator (see 5.4.1, 5.4.1 of the 2005 edition);
- Revised the corresponding test method (see Chapter 6, Chapter 6 of the 2005 edition);
- Revised the inspection item list (see Table 4, Table 9 of the 2005 edition);
- Revised the inspection decision rules (see 7.4, 7.4 of the 2005 edition);
- Modified the requirements for marking, packaging, transportation and storage (see Chapter 8, Chapter 8 of the 2005 edition).

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Earthmoving Machinery Standardization Technical Committee (SAC/TC334).

1 Scope

This standard specifies the terms and definitions, classification, requirements, test methods, inspection rules, signs, vibratory roller (hereinafter referred to as road roller).

Packaging, transportation and storage.

This standard applies to self-propelled, towed and walk-behind vibratory rollers.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 7920.5 Earth-moving machinery roller and backfill compactor terminology and commercial specifications
GB/T 8595 earthmoving machinery driver's operating device
GB/T 10913 earthmoving machine speed measurement
GB/T 14039-2002 Hydraulic transmission oil solid particle pollution level code
GB 16710 earthmoving machinery noise limit
GB/T 16937 earth-moving machinery driver vision test method and performance criteria
GB/T 18148 earth-moving machinery compaction machinery compaction performance test method
GB/T 18826 Industrial 1,1,1,2-tetrafluoroethane (HFC-134a)
GB/T 20082 Hydraulic fluid transmission liquid pollution method using optical microscope to measure particle contamination
GB .20178 Earth-moving machinery machine safety label general rules
GB 20891 Diesel engine exhaust pollutant emission limits and measurement methods for non-road mobile machinery (China's third and fourth stages)
GB/T 21152 Earth-moving machinery - Tire type machine brake system performance requirements and test methods
GB/T 22358 Earthmoving machinery protection and storage
GB/T 25602

Earthmoving Machinery Machine Usability Terminology GB/T 25606 Earthmoving Machinery Product Identification Code System GB/T 25609 Earthmoving machinery - Performance requirements and test methods for braking systems GB/T 25614 Earth-moving machinery sound power level determination dynamic test conditions GB/T 25615 Earth-moving machinery driver positional emission sound pressure level determination dynamic test conditions GB/T 25624 earthmoving machinery driver seat size and requirements GB 25684.1 Earthmoving machinery safety - Part 1. General requirements GB 25684.13 Safety of earthmoving machinery - Part 13. Requirements for road rollers General technical conditions for JB/T 5945 construction machinery assembly JB/T 5946 General technical conditions for engineering machinery painting JB/T 5947 General technical conditions for engineering machinery packaging JB/T 9725 earthwork machinery product model preparation method JG/T 5076.2 Vibratory roller vibration damping system inspection specification ISO 11500 hydraulic drive with extinction principle for automatic particle counting to determine the degree of particulate contamination of liquid samples (Hydraulic fluidpower-Determinationoftheparticulatecontaminationlevelofaliquidsamplebyautomaticpar-